





ELECTRONIC INFORMATION DISCLOSURE STATEMENT

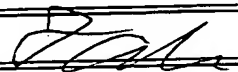
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Title of Invention	Method and Apparatus for Improving Signal-To-Noise Ratio for Hard Disk Drives																																																																																																																																
<p>Application Number: 10/619057</p> <p>Confirmation Number: 6888</p> <p>First Named Applicant: Edward Harris</p> <p>Attorney Docket Number: 075903-199</p> <p>Art Unit: 2651</p> <p>Search string: (4841502 or 4926408 or 4972396 or 4998238 or 5161137 or 5263008 or 5327417 or 5448539 or 5469418 or 5568454 or 5602693 or 5631893 or 5796557 or 6163439 or 6172836 or 6181504 or 6204660).pn.</p> <p>US Patent Documents</p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td><input checked="" type="checkbox"/></td><td>1</td><td>4841502</td><td>1989-06-20</td><td>Murakami, et al</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>2</td><td>4926408</td><td>1990-05-15</td><td>Murakami, et al</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>3</td><td>4972396</td><td>1990-11-20</td><td>Rafner</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>4</td><td>4998238</td><td>1991-03-05</td><td>Mizunoe, et al</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>5</td><td>5161137</td><td>1992-11-03</td><td>Suzuki</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>6</td><td>5263008</td><td>1993-11-16</td><td>Fujio, et al</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>7</td><td>5327417</td><td>1994-07-05</td><td>Tanaka, et al</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>8</td><td>5448539</td><td>1995-09-05</td><td>Kamioka</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>9</td><td>5469418</td><td>1995-11-21</td><td>Satoh, et al</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>10</td><td>5568454</td><td>1996-10-22</td><td>Shima, et al</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>11</td><td>5602693</td><td>1997-02-11</td><td>Brunnett, et al</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>12</td><td>5631893</td><td>1997-05-20</td><td>Kang, et al</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>13</td><td>5796557</td><td>1998-08-18</td><td>Bagnell, et al</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>14</td><td>6163439</td><td>2000-12-19</td><td>Jeong</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>15</td><td>6172836</td><td>2001-01-09</td><td>Bang</td><td></td><td></td><td></td></tr></tbody></table>		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	<input checked="" type="checkbox"/>	1	4841502	1989-06-20	Murakami, et al				<input type="checkbox"/>	2	4926408	1990-05-15	Murakami, et al				<input type="checkbox"/>	3	4972396	1990-11-20	Rafner				<input type="checkbox"/>	4	4998238	1991-03-05	Mizunoe, et al				<input type="checkbox"/>	5	5161137	1992-11-03	Suzuki				<input type="checkbox"/>	6	5263008	1993-11-16	Fujio, et al				<input type="checkbox"/>	7	5327417	1994-07-05	Tanaka, et al				<input type="checkbox"/>	8	5448539	1995-09-05	Kamioka				<input type="checkbox"/>	9	5469418	1995-11-21	Satoh, et al				<input type="checkbox"/>	10	5568454	1996-10-22	Shima, et al				<input type="checkbox"/>	11	5602693	1997-02-11	Brunnett, et al				<input type="checkbox"/>	12	5631893	1997-05-20	Kang, et al				<input checked="" type="checkbox"/>	13	5796557	1998-08-18	Bagnell, et al				<input checked="" type="checkbox"/>	14	6163439	2000-12-19	Jeong				<input checked="" type="checkbox"/>	15	6172836	2001-01-09	Bang			
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